FEILAN JIANG

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EXPERIENCE

ML and Computer Vision Intern

Microsoft Corporation

May 2020 - Aug. 2020

Redmond, WA (Remote Internship)

• Automated a visual manufacturing test using KNN and a custom distance metric, improving yield by up to 20% over the existing classical-CV solution

Infrastructure Engineering Intern

Uber ATG

🗎 Sep. 2019 - Dec. 2019

San Francisco, CA

 Developed an AWS pipeline for storing and searching thousands of calibration files, helping to enable one-touch calibration for any LiDAR test sensor

Localization and Mapping Developer

Avidbots Corp.

🛗 Jan. 2019 - Apr. 2019

- Created an automated ROS LiDAR calibration system used to prepare dozens of floorscrubbing robots for the company's clients
- Prototyped a custom visual SLAM algorithm to assist with cleaning-plan start-pose correction and map symmetry-breaking

ADAS Software Developer

BlackBerry QNX

May 2018 - Aug. 2018

Ottawa, ON

- Enhanced a LiDAR driver with a point-cloud merging feature that shortens each library usage by up to 100 lines of C++ code
- Created and deployed an object-detection demo to showcase the ADAS stack's pointcloud downsampling and segmentation capabilities

PROJECTS & ACTIVITIES

Future Undergraduate Student Researcher %

• Research areas are perception and navigation in the self-driving space

SAE AutoDrive Challenge Team Member %

 Implemented a traditional computer vision-based lane detection system in OpenCV and ROS

Autonomous Mobile Robot %

- Developing a mobile robot that is controlled by hand gestures and uses the ROS navigation stack
- Currently experimenting with navigation technologies such as path-planning, SLAM, and obstacle avoidance

SKILLS



LANGUAGES

C++	~4 Years
Python	~3.5 Years
С	~2 Years
JavaScript	~1.5 Years

EDUCATION

BASc Mechatronics Eng. University of Waterloo

Sep. 2016 - Apr. 2021

INTERESTS

